1998 Contents

Volume 44, Number 1, February 1998

Editor's Annual Report **1**

Tax Incidence and Optimal Forest Taxation under Stochastic Demand
E. Koskela and M. Ollikainen **4**

The Law of One Price in United Kingdom Soft Sawnwood Imports—A Cointegration Approach
R.H. Hänninen **17**

A Comparison of Timber Market Models: Static Simulation and Optimal Control Approaches
B. Sohngen and R. Sedjo **24**

Modeling Dominant Height Growth: Eucalyptus Plantations in Portugal
A. Amaro, D. Reed, M. Tomé, and I. Themido **37**

Modeling Timber Harvest Scheduling Problems with Multiple Criteria: An Application in Spain
L. Díaz-Balteiro and C. Romero **47**

Transect Relascope Sampling—A Method for the Quantification of Coarse Woody Debris
G. Ståhl **58**

Canopy Dynamics, Light Interception, and Radiation Use Efficiency of Selected Loblolly Pine Families
R.L. McCrady and E.J. Jokela **64**

Estimating Tree Grades for Southern Appalachian Natural Forest Stands
J.P. Prestemon **73**

Using Simultaneous Regression Techniques with Individual-Tree Growth Models
H. Hasenauer, R.A. Monserud, and T.G. Gregoire **87**

Ensuring the Compatibility of Aquatic Habitat and Commodity Production Goals in Eastern Oregon with a Tabu Search Procedure
P. Bettinger, J. Sessions, and K.N. Johnson **96**

Modeling the Dynamics and Species Composition of a Tropical Mixed-Species Uneven-Aged Natural Forest: Effects of Alternative Cutting Regimes
V. Favrichon **113**

Reconstructing the Spatial Pattern of Trees from Routine Stand Examination Measurements
M.L. Hanus, D.W. Hann, and D.D. Marshall **125**

Bayesian Analysis of the Linear Model with Heterogeneous Variance
E.J. Green and H.T. Valentine **134**

1998 Contents

Volume 44, Number 1, February 1998

Editor's Annual Report **1**

Tax Incidence and Optimal Forest Taxation under Stochastic Demand
E. Koskela and M. Ollikainen **4**

The Law of One Price in United Kingdom Soft Sawnwood Imports—A Cointegration Approach
R.H. Hänninen **17**

A Comparison of Timber Market Models: Static Simulation and Optimal Control Approaches
B. Sohngen and R. Sedjo **24**

Modeling Dominant Height Growth: Eucalyptus Plantations in Portugal
A. Amaro, D. Reed, M. Tomé, and I. Themido **37**

Modeling Timber Harvest Scheduling Problems with Multiple Criteria: An Application in Spain
L. Díaz-Balteiro and C. Romero **47**

Transect Relascope Sampling—A Method for the Quantification of Coarse Woody Debris
G. Ståhl **58**

Canopy Dynamics, Light Interception, and Radiation Use Efficiency of Selected Loblolly Pine Families
R.L. McCrady and E.J. Jokela **64**

Estimating Tree Grades for Southern Appalachian Natural Forest Stands
J.P. Prestemon **73**

Using Simultaneous Regression Techniques with Individual-Tree Growth Models
H. Hasenauer, R.A. Monserud, and T.G. Gregoire **87**

Ensuring the Compatibility of Aquatic Habitat and Commodity Production Goals in Eastern Oregon with a Tabu Search Procedure
P. Bettinger, J. Sessions, and K.N. Johnson **96**

Modeling the Dynamics and Species Composition of a Tropical Mixed-Species Uneven-Aged Natural Forest: Effects of Alternative Cutting Regimes
V. Favrichon **113**

Reconstructing the Spatial Pattern of Trees from Routine Stand Examination Measurements
M.L. Hanus, D.W. Hann, and D.D. Marshall **125**

Bayesian Analysis of the Linear Model with Heterogeneous Variance
E.J. Green and H.T. Valentine **134**

Effects of Plant Growth-Promoting Rhizobacteria on Loblolly and Slash Pine Seedlings
S.A. Enebak, G.Wei, and J.W. Kloepper 139

Measuring Softwood Lumber Value: A Conjoint Analysis Approach
V.S. Reddy and R.J. Bush 145

Long-Term Trends in Height Growth of Jack Pine in North Central Ontario
J.C.G. Goelz and T.E. Burk 158

The Design of Second Best Forest Incentives in Small Open Economies
G.S. Amacher, M. Rios, L. Constanino, and R.J. Brazee 165

Book Reviews

Beech Forests
by R. Peters
reviewed by C.A. Nowak 176

Applications of Physiological Ecology to Forest Management
by J.J. Landsberg and S.T. Gower
reviewed by R.E. Dickson 177

Plant Collectors in Madagascar and the Comoro Islands
by L.J. Dorr
reviewed by B. Orr 178

Upcoming Book Reviews 179

Meeting Announcements 179

Volume 44, Number 2, May 1998

Variation in Selected Wood Properties of *Vochysia Guatemalensis* from Four Sites in Costa Rica
E. Gonzalez J. and R.F. Fisher 185

The Optimal Timber Rotation: An Option Value Approach
A.J. Plantinga 192

The Role of Mycorrhizae, Site Preparation, and Organic Amendment in the Afforestation of a Semi-Arid Mediterranean Site with *Pinus halepensis*
J.I. Querejeta, A. Roldán, J. Albaladejo, and V. Castillo 203

Modeling Thinning Effects on Ring Specific Gravity of Loblolly Pine (*Pinus taeda* L.)
G. Tasissa and H.E. Burkhart 212

Adapting Distance-Independent Forest Growth Models to Represent Spatial Variability: Effects of Sampling Design on Model Coefficients
A.R. Stage and W.R. Wykoff 224

Does Thinning Affect Gypsy Moth Dynamics?
A.M. Liebhold, R-M. Muzika, and K.W. Gottschalk **239**

Use of Individual Tree Mixed Models to Account for Mortality and Selective Thinning When Estimating Base Population Genetic Parameters
X. Wei and N.M.G. Borralho **246**

Qualitative Comparative Analysis: A Useful Tool for Research into Forest Policy and Forestry Conflicts
E. Hellström **254**

Reconciling Multivariate Calibrations of Volume Estimates in Two-Phase Forest Inventories
S. Magnussen and P. Boudewyn **266**

Forest Harvests and Wood Products: Sources and Sinks of Atmospheric Carbon Dioxide
J.K. Winjum, S. Brown, and B. Schlamadinger **272**

Modeling the Basal Area-size Distribution of Forest Stands: A Compatible Approach
J.H. Gove and G.P. Patil **285**

Measuring the Efficiency of Public Forestry Organizations
E-J. Viitala and H. Hänninen **298**

Influence of Intensive Culture on Leaf Net Photosynthesis and Growth of Sweetgum and Loblolly Pine Seedlings
L.J. Samuelson **308**

Leaf Area and Above- and Belowground Growth Responses of Loblolly Pine to Nutrient and Water Additions
T.J. Albaugh, H.L. Allen, P.M. Dougherty, L.W. Kress, and J.S. King **317**

Book Reviews

Northern Forested Wetlands: Ecology and Management
Edited by C.C Trettin, M.F. Jurgensen, D.F. Grigal, M.R. Gale, and J.K. Jeglum
reviewed by A.J.K. Calhoun **329**

Harvesting Wild Species: Implications for Biodiversity Conservation
Edited by C.H. Freese
reviewed by S. DeStefano **330**

Fundamentals of the Physical Environment
by D. Briggs, P. Smithson, K. Addison, and K. Atkinson
reviewed by D.W. Waldren **331**

Achieving Sustainable Development (Sustainability and the Environment Series)
by A. Dale and J.B. Robinson
reviewed by W. White **332**

The Idea of Biodiversity: Philosophies of Paradise
by D. Takacs
reviewed by P.A. Jordan **334**

Brief Notices 335

Upcoming Book Reviews 335

Meeting Announcements 335

Errata 336

Volume 44, Number 3, August 1998

Mixed Conifer Forest Mortality and Establishment Before and After Prescribed Fire in Sequoia National Park, California
L.S. Mutch and D.J. Parsons 341

Determining the Optimal Planting Density and Land Expectation Value—A Numerical Evaluation of Decision Model
P. Gong 356

Efficiency Implications of Silvicultural Expenditures from Separating Ownership and Management on Forest Lands
M.K. Luckert 365

Segmenting the Market for Environmentally Certified Wood Products
L.K. Ozanne and P.M. Smith 379

Impact of Alternative Regeneration Methods on Genetic Diversity in Coastal Douglas-Fir
W.T. Adams, J. Zuo, J.Y. Shimizu, and J.C. Tappeiner 390

Influence of Plant Density and Soil Organic Matter on the First-Year Growth of Loblolly Pine and Sweetgum
B.R. Zutter, G.R. Glover, and R.J. Mitchell 397

Standard Errors of Area Estimates Obtained by Traversing and GPS
L. Bondesson, G. Ståhl, and S. Holm 405

Survival of Hemlock Woolly Adelgid (Homoptera: Adelgidae) at Low Temperatures
B.L. Parker, M. Skinner, S. Gouli, T. Ashikaga, and H.B. Teillon 414

Analyzing Public Inputs to Multiple Objective Decisions on National Forests Using Conjoint Analysis
D.F. Dennis 421

Development and Evaluation of Habitat Models for Herpetofauna and Small Mammals
W.M. Block, M.L. Morrison, and P.E. Scott 430

The Effects of Fixed-Area Plot Width on Forest Canopy Height Simulation
R.F. Nelson, T.G. Gregoire, and R.G. Oderwald 438

Crown Profile Modeling of Loblolly Pine by Nonparametric Regression Analysis
P.F. Doruska and J.E. Mays **445**

Technical Note—Nitrogen Supply, Nitrogen Use, and Production in an Age Sequence of Lodgepole Pine
U. Olsson, D. Binkley, and F.W. Smith **454**

Allometry and Growth
L.R. Broad **458**

Estimation of Temporal Variations in Historical Fire Frequency from Time-Since-Fire Map Data
W.J. Reed, C.P.S. Larsen, E.A. Johnson, and G.M. MacDonald **465**

Book Reviews

Geographic Variation in Forest Trees
by H.K.Morgenstern
reviewed by B.C. Bongarten **476**

Temperate Agroforestry Systems
edited by A.M. Gordon and S.M. Newman
reviewed by D.E. Hibbs **477**

Brief Notices **478**

Upcoming Book Reviews **479**

Meeting Announcements **479**

Errata **480**

Volume 44, Number 4, November 1998

The Impact of Reserve Prices in Sealed Bid Federal Timber Sale Auctions
D.R. Carter and D.H. Newman **485**

Risk Preferences and Adaptive Harvest Policies for Even-Aged Stand Management
P. Gong **496**

Using the Non-Parametric Classifier CART to Model Forest Tree Mortality
M. Dobbertin and G.S. Biging **507**

Regional Cost Function Analysis of the Logging Industry in the Pacific Northwest and Southeast
P. Smith and I.A. Munn **517**

Using Dynamic Programming and Overlapping Subproblems to Address Adjacency in Large Harvest Scheduling Problems
H.M. Hoganson and J.G. Borges **526**

Using Expert Judgment to Model Initial Attack Fire Crew Effectiveness
K.G. Hirsch, P.N. Corey, and D.L. Martell **539**

Tree-Ring Responses to Drought Across Species and Contrasting Sites in the Ridge and Valley of Central Pennsylvania
M.D. Abrams, C.M. Ruffner, and T.A. Morgan **550**

Comparative Susceptibility of Conifers to Larch Dwarf Mistletoe in the Pacific Northwest
R.L. Mathiasen **559**

Economic and Fragmentation Effects of Clearcut Restrictions
T.M. Barrett, J.K. Gilless, and L.S. Davis **569**

The Economic Impact of a Subsidy on Mexican Grains and Forestry: A CGE Analysis
R. Boyd and K. Doroodian **578**

Genetic Parameters and Breeding Value Predictions for *Eucalyptus Nitens* Wood Fiber Production Traits
W.N. Tibbits and G.R. Hodge **587**

Effects of Thinning and Nitrogen Fertilization on Sugars and Terpenes in Douglas-Fir Vascular Tissues: Implications for Black Bear Foraging
B.A. Kimball, E.C. Turnblom, D.L. Nolte, D.L. Griffin, and R.M. Engeman **599**

Measuring Environmental Quality in the Southern Appalachian Mountains
L. Pendleton, B. Sohngen, R. Mendelsohn, and T. Holmes **603**

Analyzing Consistency of Experts' Judgments—Case of Assessing Forest Biodiversity
J. Kangas, J.M. Alho, O. Kolehmainen, and A. Mononen **610**

Survival and Growth of Seedlings of Four Bottomland Oak Species in Response to Increases in Flooding and Salinity
W.H. Conner, K.W. McLeod, and J.K. McCarron **618**

Book Reviews

Placing Nature: Culture and Landscape Ecology
edited by J.I. Nassauer
reviewed by T.V. Stein **625**

The Science of Conservation Planning: Habitat Conservation Under the Endangered Species Act
by R.F. Noss, M.A. O'Connell, and D.D. Murphy
reviewed by K. Ralls **626**

Brief Notice 627

Upcoming Book Reviews 627

Meeting Announcements 628

1998 Subject Index 629

1998 Author Index 631

1998 Contents 632